Wolverine

Wolverine 35mm Film to Digital Converter

Model F2D

USER MANUAL

Version 1.01
December 2008

TABLE OF CONTENTS

DESCRIPTION	PAGE
Table of Contents	1
Before Using the F2D Converter	3
FCC Certifications	3
Warning	4
Help Phone Line	6
Features	6
Fast Track Guide	8 ~ 14
1. Clean Converter Camera	8
2. Attach Power	8
3. Place Film Into Cartridge	9
4. Place Slides Into Cartridge	9

DESCRIPTION PAGE

5. Insert Memory Card 10

6. Insert Cartridge 10

7. Power On/Off Converter 10

8. Flip Image 10

9. Convert Image 11

10. Edit Image Options – Flip, Mirror, Rotate 11

11. Transfer Digital Images to Computer 12

12. Convert Slides or B&W Images 13

13. Message – Memory Full 13

14. Playback 14

Technical Support 15

Specifications 15

Limited Warranty 16

Before Using the F2D Converter

This section provides important safety information that you should read before using your F2D Converter.

FCC Certifications

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Warning:

Warranty will be void if mishandled. Please take care in handling the Wolverine Device:

?? Do not drop or handle too aggressively as it may cause damage to the device.

?? Do not allow the device to come into contact with water or other liquids. In the event that water or other liquids enters the interior, immediately turn off the device. Continued use of the device may result in fire or electrical shock.

?? Do not handle with wet hands. Doing so may cause electrical shock and damage the unit.

?? Do not place the device close to any equipment generating strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunction or data corruption.

?? Do not expose the device to extreme temperatures, humidity or vibrations, which may cause damage to the device.

?? Do not open the outer case. This unit does not require or have batteries.

?? Do not move or disconnect the device from the computer while the device is reading/writing data. This may cause damage to the data and/or the device.

?? Under no circumstances should the user try to repair the device. Doing so may cause electrical shock and void the warranty.

WOLVERINE DATA IS NOT RESPONSIBLE FOR CONSEQUENTIAL DAMAGES, INCLUDING LOSS OF DATA. ALWAYS BACK UP ALL DATA. FOR FULL WARRANTY STATEMENT SEE END OF THIS MANUAL.

Wolverine Data has no obligation to repair, replace or issue refunds without a Return Merchandise Authorization (RMA) number and the receipt of the defective product.

Repairs or replacement service will not be offered to Products that were misused, repaired without authorization or by other reasons beyond the range of intended use.

Products replacement may be either new or refurbished, provided that it has functionality at least equal to that of the product being replaced.

Wolverine Data is not responsible for any data stored on the returned Product, please backup any data prior to shipping the unit.
All OUT OF WARRANTY repairs maybe subject to a normal repair fee. Please contact your dealer or Wolverine Data for current charges.

Having difficulty using this product? Wolverine Data is here to help.

Please try the following options before returning the product to the store:

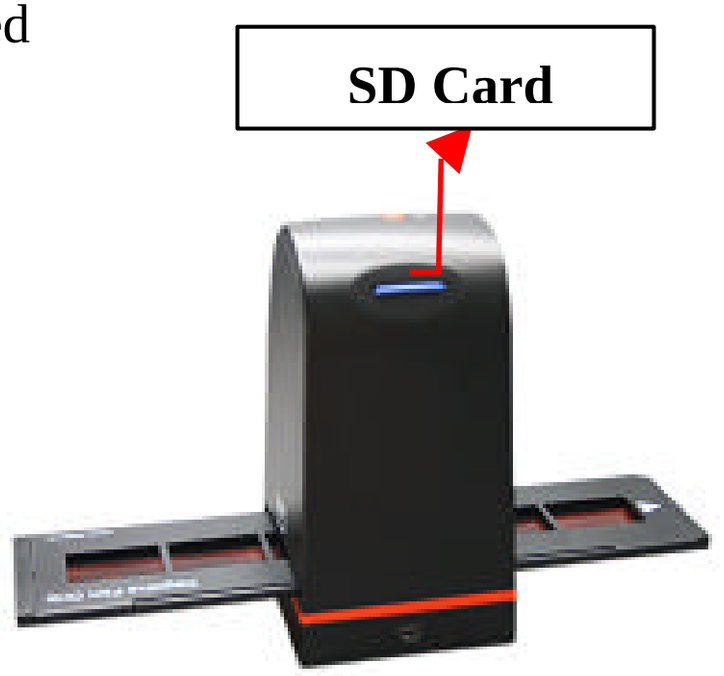
- ?? Many problems can be resolved by reading this manual
- ?? Visit www.wolverinedata.com/support to find the latest documentation and other help tips
- ?? E-mail our technical support staff at: support@wolverinedata.com
- ?? Call us at 949-653-6300 M-F 9:00-5:00 Pacific Time

Features

Now you can take all those stacks of 35mm film and convert them into digital images to preserve them forever. Wolverine has created a very

simple to use device to convert all your 35mm film negatives and slides into a 5 mega pixel digital images in seconds.

So simple to use, it only requires a push of button - NO computer or software is needed. Use it right out of the box to convert all your 35mm films by simply plugging it into an AC outlet or any USB port. All images are saved directly on your SD memory card for your convenience to instantly play them on the unit, or through your Digital Picture Frame, or upload them to your computer.



?? Converts 35mm film negatives and slides to a 5 Mega Pixel digital images with a push of a button

?? Unique Stand-alone operation – No computer or software required to operate

?? Fast conversion – requires only five seconds to convert an image

?? Built-in 1.5-inch color LCD screen to view and edit images

?? Saves images directly on your SD memory cards

?? Compact size - takes very little space to operate, store or transport

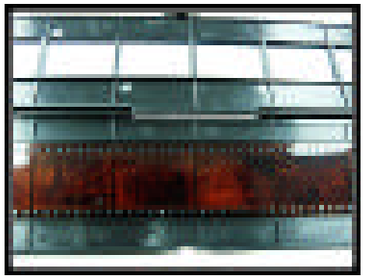
Fast Track Guide

This Fast Track Guide takes you through the steps involved in setting up your Converter and using it.

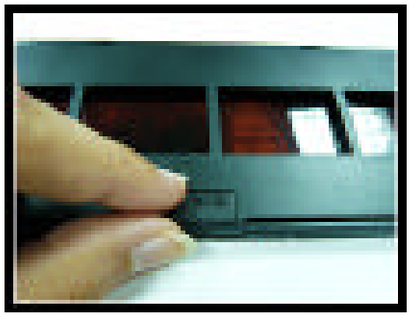
1. CLEAN CONVERTER SCANNER	2. ATTACH POWER
For best results we highly recommend cleaning the inside of the Converter using the included cleaning brush before every new use. Insert the brush face down in the Converter base opening and gently dry-clean the inside as shown in picture.	Either the included AC power adapter or computer USB port can power the Converter. Attach the USB cable to the AC Power Adapter and insert the USB cable into back of Converter.

3. PLACE FILM INTO <u>FILM</u> CARTRIDGE

Pull film cartridge open



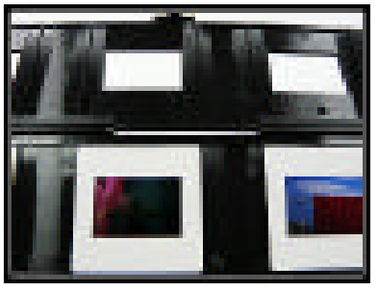
Place negative film



Close cartridge and press down tabs on both sides

4. PLACE SLIDES INTO <u>SLIDE</u> CARTRIDGE

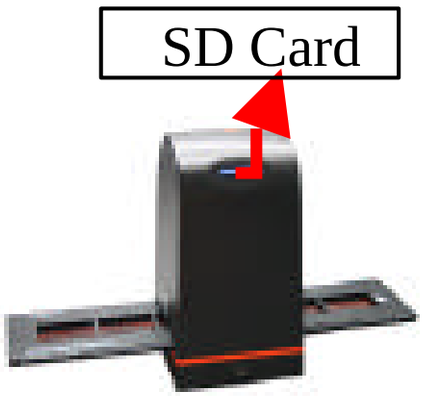
Pull slide cartridge open



Place slides

Close cartridge and press down tabs on both sides

5. INSERT MEMORY CARD



Insert your SD memory card Upside Down in the card reader of the back of the unit. **The Gold Contacts will be facing up.**

6. INSERT CARTRIDGE

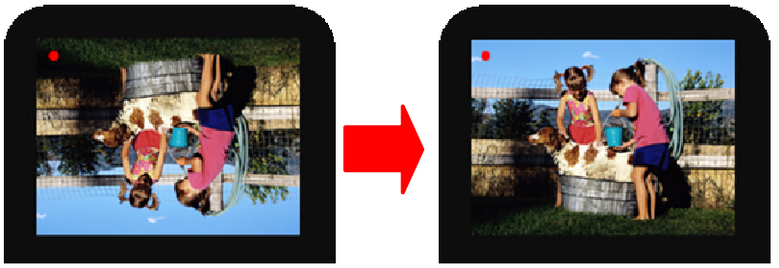
Insert cartridge into Right Side of the F2D Converter with directional arrow ◀ pointing to the base opening

7. POWER ON/OFF

Press Power button to power
(**Orange Button**) **ON**
Press Power button to power
(**Orange Button**) **OFF**

8. FLIP IMAGE

Flip Button



9. CONVERT IMAGES

On screen red blinking dot is an indication that the Converter is ready to convert. Press the <**OK**> button once and wait for five seconds.

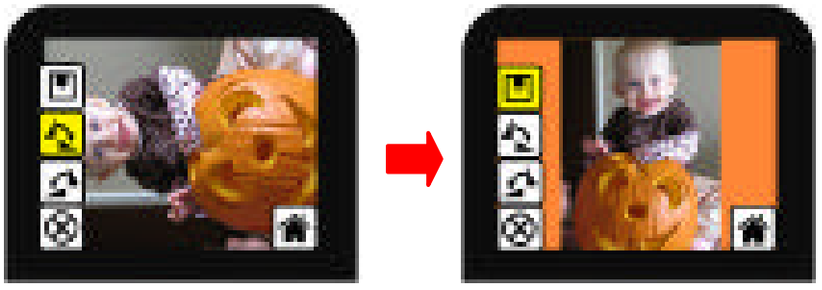
Save

At above menu prompt press <**OK**> button to save digital image to memory card

10. EDIT IMAGE OPTIONS

Highlighted icon in yellow is current selected option.
Use the <▼ / **FLIP** > or <▲ / **MIRROR** > buttons to choose other options.
Press < **OK** > to select option.

1. Save
2. Rotate image clockwise



3. Rotate image counter clockwise
4. Cancel editing
5. Back to main menu

11. TRANSFER DIGITAL IMAGES TO COMPUTER

Images can be uploaded to a computer through a computer's built-in SD card reader or any external SD memory card reader.

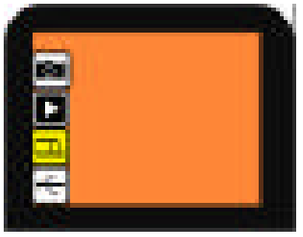
Images can be transferred to a computer using the Converter acting as a memory card reader by following these steps:

1. Insert memory card into Converter **Gold Contacts Facing Up**
2. Plug Converter into a computer USB port
3. Turn on Converter
4. Press < ▼ /**FLIP**> button until USB icon is in yellow
5. Press < **OK** > button to select USB mode.

Computer at this point will connect to the SD memory card through the Converter's card reader

12. CONVERT SLIDES or B&W IMAGES

Source ➡



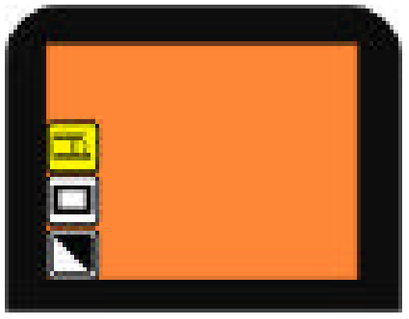
The unit is always defaulted to convert negative film.

To convert slides or B&W images turn on the unit.

Press ▼ / FLIP> button two times until the "**Source**" option is **highlighted in yellow**.

Press < **OK** > button to select.

Negative ➡
Slides ➡
B&W ➡



Use the <▼ / **FLIP**> button to choose from:

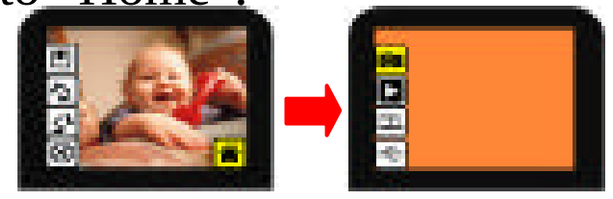
1. Negatives 2. Slides 3. B&W

Insert Slides or B&W cartridge into the Converter. Follow steps 7 & 8 in this manual to convert image.

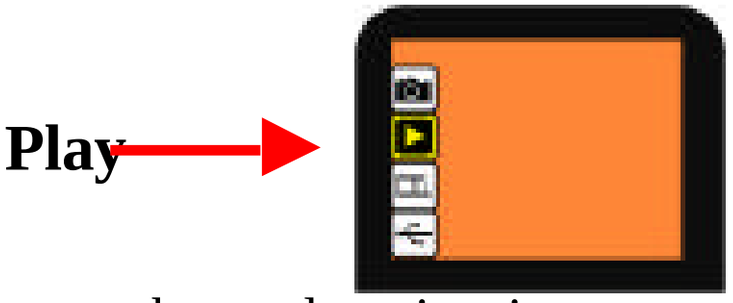
13. MESSAGE - MEMORY FULL

SD memory card with 1GB capacity can hold approximately 1000 digital images. Once the memory card is full, a message as shown above will display. At this point no more images can be taken until memory card contents are transferred to another media like a computer's hard drive. After transferring images, delete all images from SD card or Format card as FAT Type using your computer.

Note: You can always reach the Home Menu showing above by pressing < **OK** >, then press the < ▼ / **Mirror** > button to choose "**HOME**" icon. Press < **OK** > to go to "Home".



14. PLAYBACK



The Converter can be used to view images saved on the SD memory card. To play a slide show of the images from the "**Home**" screen Select the "**Play**" mode.

Converter defaults to auto slide show play mode

To pause at an image press < **OK** > button.
To resume slide show play mode press < **OK** > button. Use the directional arrow buttons < **Flip** > or < **Mirror** > to highlight "**EXIT**" icon in yellow. Press < **OK** > to resume Playback.

Technical Support

For technical support, warranty service, or paid service please contact Wolverine Data at Support@wolverinedata.com or by calling 949-458-9888 M-F 9:00-5:00 Pacific Time

Specifications

Image Sensor:	1/1.8” inch 5 mega pixel CMOS sensor
Lens:	F no.= 2.0, 4 Glass elements,
LCD	1.5” Color TFT LCD
Memory Slot	SD/MMC compatible
Focus Range:	Fixed focus
Exposure Control:	Automatic
Color Balance:	Automatic
Scan Quality	1,800 dpi
Data Conversion	10 bits per color channel
Scan Method	Single pass
Light Source	Back light (3 white LEDs)
Interface:	USB 2.0
USB Configuration	Mass Storage Device Class/MSDC
Power:	5V adapter, or USB power
Dimensions	3.2x3.4x7.2-inches
Weight	1 lbs
Operating Systems	Windows ME/2000/XP/Vista 32/64 bits, Mac OS 10 and above

One-Year Limited Warranty (United States Only)

Wolverine Data manufactures its hardware products from parts and components that are new or equivalent to new in accordance with industry-standard practices. Wolverine Data warrants that the hardware products it manufactures will be free from defects in materials and workmanship. The limited warranty term is one year beginning on the date of invoice, as further described in the following text.

Damage due to shipping the product to you is covered under this limited warranty. Otherwise, this limited warranty does not cover damage due to external causes, including accident, abuse, misuse, problems with electrical power, servicing not authorized by Wolverine Data, usage not in accordance with product instructions, failure to perform required preventive maintenance, and problems caused by use of parts and components not supplied by Wolverine Data.

This limited warranty does not cover any items that are in one or more of the following categories: software; external devices (except as specifically noted); accessories or parts added to a Wolverine Data system after the system is shipped from Wolverine Data its resellers; accessories or parts that are not installed in the Wolverine Data factory.

During the one-year period beginning on the invoice date, Wolverine Data will repair or replace products returned to Wolverine Data's facility. To request limited warranty service, you must contact Wolverine Data's Customer Technical Support within the limited warranty period. Refer to the section titled TECHNICAL SUPPORT to find the appropriate telephone number for obtaining customer assistance. If limited warranty service is required, Wolverine Data will issue a Return Material Authorization Number. You must ship the products back to Wolverine Data in their original or equivalent packaging, prepay shipping charges, and insure the shipment or accept the risk of loss or damage during shipment. Wolverine Data will ship the repaired or replacement products to you freight prepaid if you use an address in the continental United States, where applicable. Shipments to other locations will be made freight collect.

NOTE: Wolverine Data uses new and reconditioned parts made by various manufacturers in performing limited warranty repairs and building replacement products. If Wolverine Data repairs or replaces a product, its limited warranty term is not extended.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE (OR JURISDICTION TO JURISDICTION). WOLVERINE DATA'S RESPONSIBILITY FOR MALFUNCTIONS AND DEFECTS IN HARDWARE IS

LIMITED TO REPAIR AND REPLACEMENT AS SET FORTH IN THIS LIMITED WARRANTY STATEMENT. ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LIMITED WARRANTY PERIOD SET FORTH ABOVE AND NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER SUCH PERIOD. SOME STATES (OR JURISDICTIONS) DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

WOLVERINE DATA DOES NOT ACCEPT LIABILITY BEYOND THE REMEDIES SET FORTH IN THIS LIMITED WARRANTY STATEMENT OR LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION ANY LIABILITY FOR PRODUCTS NOT BEING AVAILABLE FOR USE OR FOR LOST DATA OR SOFTWARE. SOME STATES (OR JURISDICTIONS) DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION OR LIMITATION MAY NOT APPLY TO YOU.